

D.J.  
#14 7/1/02  
IDS w/refs  
PATENT  
P56603

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

WON-CHOUL YANG

Serial No.: 10/072,889

Examiner: to be assigned

Filed: 12 February 2002

Art Unit: 2652

For: *METHOD AND APPARATUS FOR DETERMINING DISK DRIVE PARAMETER IN ACCORDANCE WITH AMBIENT TEMPERATURE*

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner  
for Patents  
Washington, D.C. 20231

RECEIVED

JUL 03 2002

Technology Center 2600

Sir:

Pursuant to 37 CFR §§1.56, 1.97 and 1.98, applicant cites, and provides copies of the following art references:

**U.S. PATENT REFERENCES**

	<u>U.S. Patent No.</u>	<u>Inventor(s)</u>	<u>Issued Date</u>
✓	3,753,254	Ruble et al.	14 August 1973
✓	5,566,077	Kulakowski et al.	15 October 1996
✓	5,808,438	Jeffrey	15 September 1998
✓	6,078,455	Enarson et al.	20 June 2000
✓	6,088,662	Flinsbaugh et al.	11 July 2000
✓	6,124,998	Kanegae	26 September 2000
✓	6,229,275	Yamamoto	8 May 2001

**FOREIGN PATENT REFERENCES**

	<b><u>Foreign Patent No.</u></b>	<b><u>Inventor(s)</u></b>	<b><u>Issued Date</u></b>
✓	GB 2 341 267	Enarson et al.	8 March 2000

**Other Documents**

- ✓ United Kingdom Patent Office's combined search and examination report No. GB 0125016.6 dated 17 May 2002

**Discussion**

According to the Examiner, Enerson '455 and Seagate '267 disclose a system for optimizing the operational threshold performance of a disk drive through temperature control. An optimum temperature range is set and a sensor periodically measures the temperature of the disk drive whilst the disk drive is at idle.

Yamamoto '275 discloses, according to the British Examiner, a semiconductor device for use in a disk drive. The device comprises a temperature detection section, whereby, if the temperature rises or falls beyond a predetermined range a signal is sent to the spindle motor driver to compensate for the extreme temperature.

Kanegae '998, according to the British Examiner, includes a temperature detecting unit which, at predetermined times, detects the ambient temperature of the recording medium, and compares the value to threshold values. The write current is then adjusted accordingly.

Flinsbaugh '662, according to the British Examiner, discloses a temperature sensing system for use in a computer disk drive, whereby the effects of the temperature are compensated by optimizing temperature related read/write parameters such as MR pre amp write current magnitude

and read bias current.

Jeffrey '438, according to the British Examiner, discloses a system that in response to the signal from the temperature sensor the voltage applied to the actuator motor is adjusted to compensate.

Kulakowski '077, according to the British Examiner, discloses a control system that when the temperature exceeds a first threshold the control circuit inhibits the high/low temperatures write and erase operations, and the operating temperature of the drive is maintained within predetermined parameters.

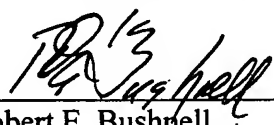
Ruble '254, according to the British Examiner, discloses two thermistors, and if a change in temperature is detected, the signals are compared to a set reference temperature in order to generate a compensation signal to correct the head position controller.

The citation of the foregoing references is not intended to constitute an assertion that other or more relevant art does not exist. Accordingly, the Examiner is requested to make a wide-ranging and thorough search of the relative arts.

Pursuant to 37 CFR §1.97(d), the undersigned attorney hereby certifies that each item of information contained in this Information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the statement.

No fee is incurred by filing this Information Disclosure Statement. Should any fee remain or be required for filing of this Information Disclosure Statement, the Commissioner is authorized to charge the Deposit Account No. 02-4943 and advise the undersigned attorney accordingly.

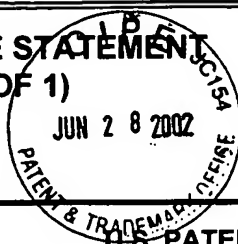
Respectfully submitted,

  
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Date: 28 June 2002  
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**INFORMATION DISCLOSURE STATEMENT**  
**PTO-1449 (PAGE 1 OF 1)**



SERIAL NUMBER 10/072,889

DOCKET NO. P56603

APPLICANT

WON-CHOUL YANG

FILING DATE 12 February 2002

GROUP 2652

**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	3,753,254	8/73	Ruble et al.			
	5,566,077	10/96	Kulakowski et al.			
	5,808,438	9/98	Jeffrey			
	6,078,455	6/00	Enarson et al.			
	6,088,662	7/00	Flinsbaugh et al.			
	6,124,998	9/00	Kanegae			
	6,229,275	5/01	Yamamoto			

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**FOREIGN PATENT DOCUMENTS**

**TRANSLATION**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
GB 2 341 267	3/00	United Kingdom				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

United Kingdom Patent Office's combined search and examination report No. GB 0125016.6 dated 17

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.